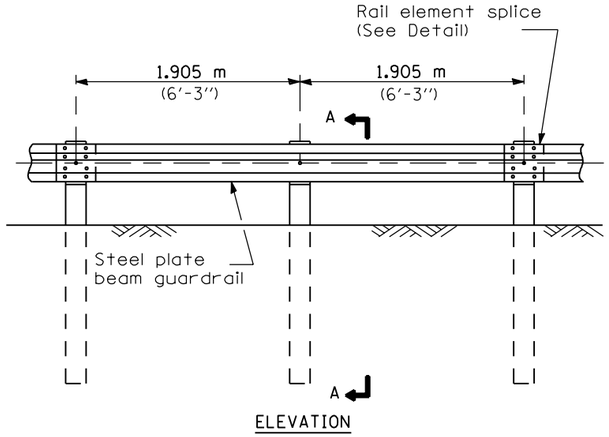
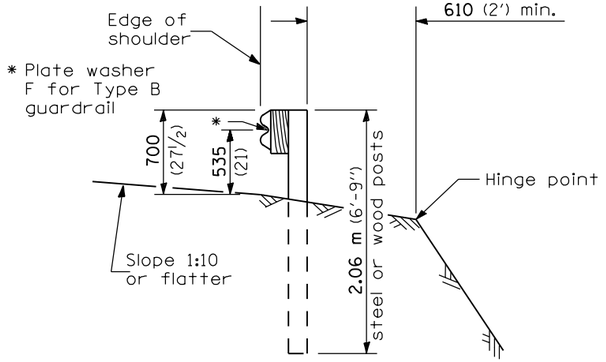


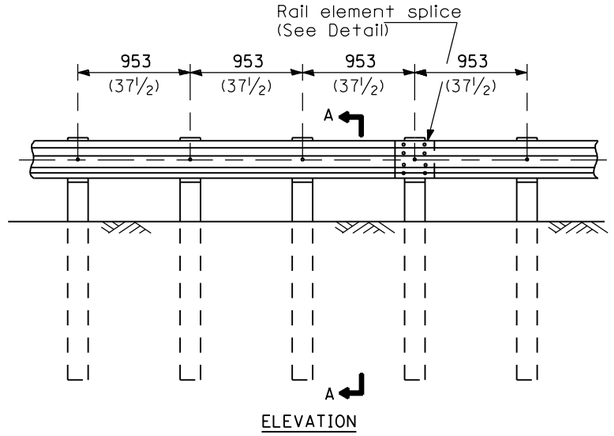
ELEVATION

TYPE A

1.905 m (6'-3") Typical post spacing



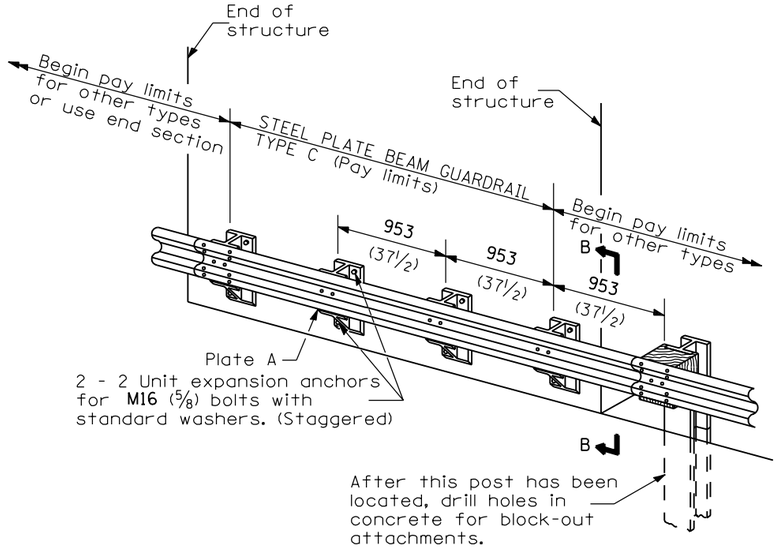
SECTION A-A



ELEVATION

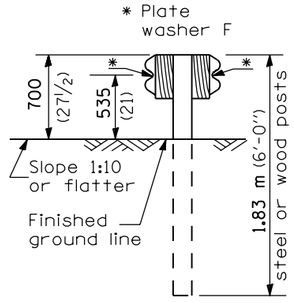
TYPE B

953 (37½) Closed post spacing

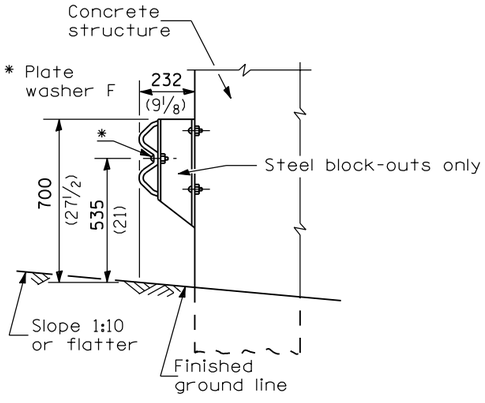


TYPE C

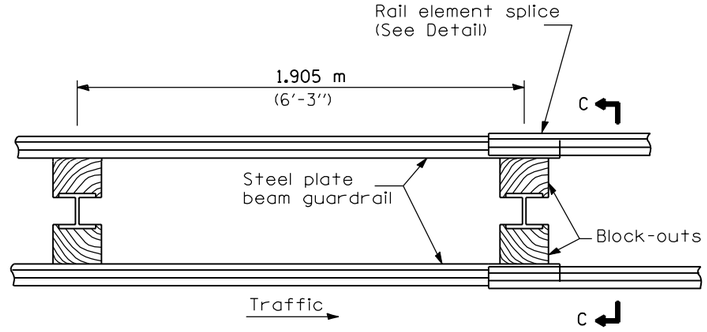
953 (37½) Block-out spacing



SECTION C-C



SECTION B-B



PLAN

TYPE D

Double steel plate beam guardrail
1.905 m (6'-3") typical post spacing

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in millimeters (inches) unless otherwise shown.

Illinois Department of Transportation

PASSED October 1, 2002
Roger Driskell
ENGINEER OF POLICY AND PROCEDURES

APPROVED October 1, 2002
Michael L. Heine
ENGINEER OF DESIGN AND ENVIRONMENT

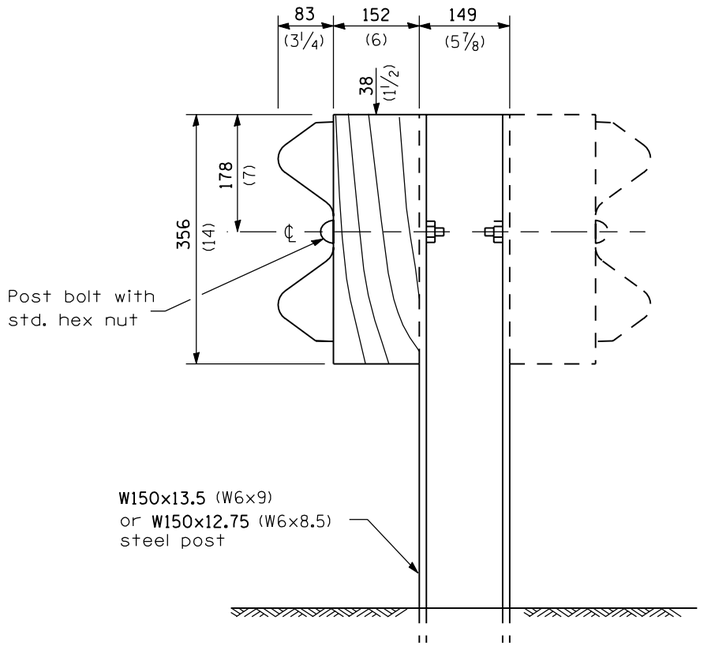
ISSUED 1-1-97

DATE	REVISIONS
10-1-02	Added min. spacing
	from guardrail post to
	shoulder hinge point.
1-1-02	Revised the location of
	section B-B in Type C.

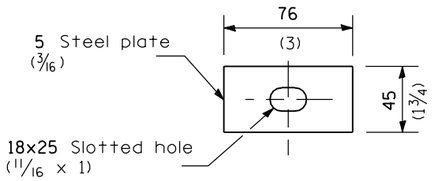
STEEL PLATE BEAM GUARDRAIL

(Sheet 1 of 4)

STANDARD 630001-04



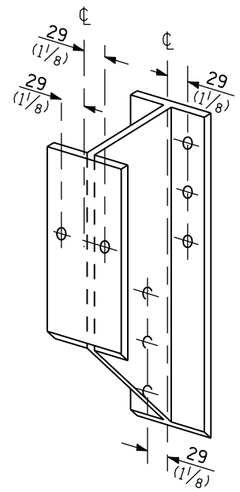
STEEL POST CONSTRUCTION



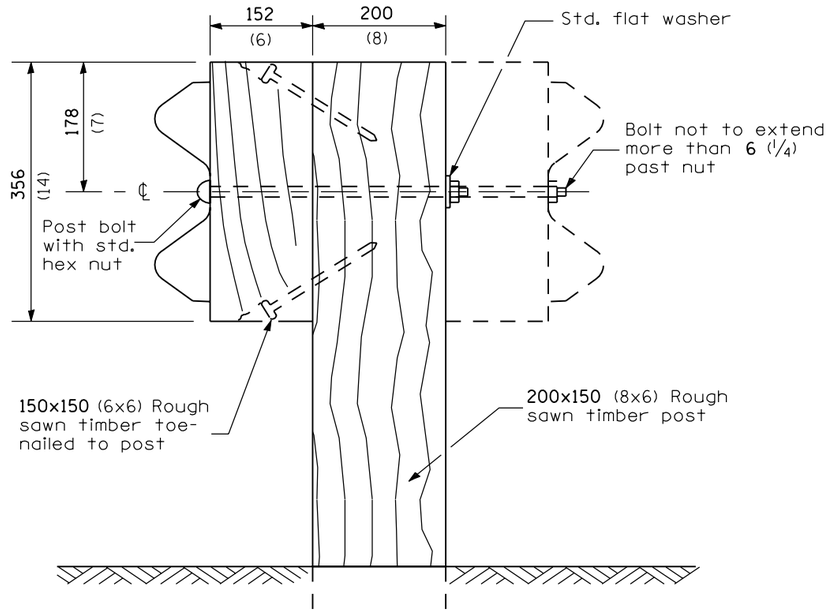
NOTE

Plate washer F shall be used on type A guardrail only where specified. Plate washer F shall be used at all other locations where rail element is bolted to a block-out unless otherwise noted.

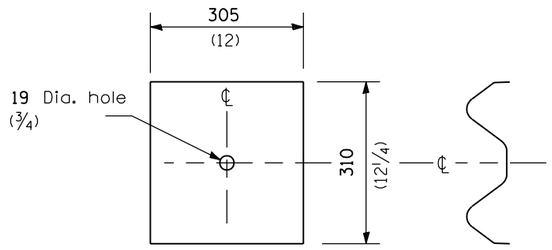
PLATE WASHER F



STEEL BLOCK-OUT DETAIL



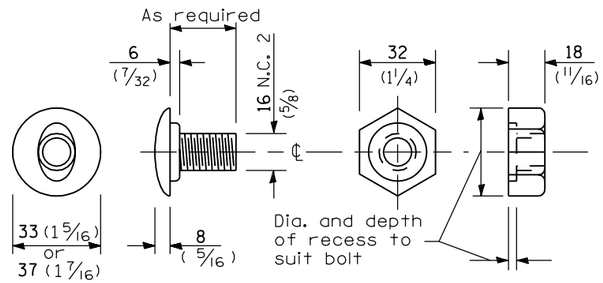
WOOD POST CONSTRUCTION



NOTE

Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.

PLATE A



POST OR SPLICE BOLT & NUT

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ENGINEER OF DESIGN AND ENVIRONMENT

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STEEL PLATE BEAM GUARDRAIL

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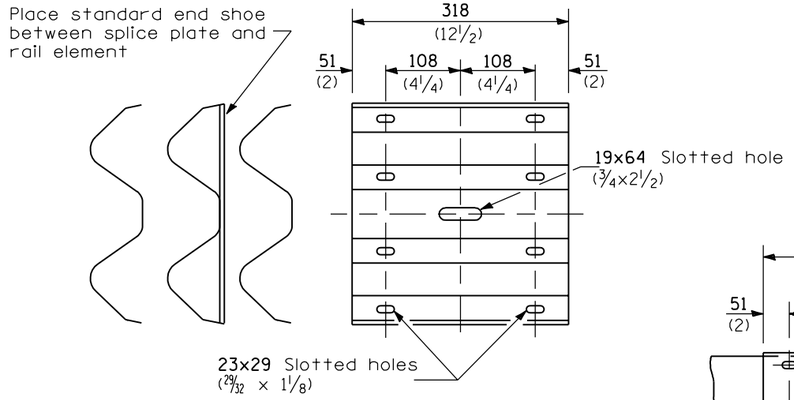
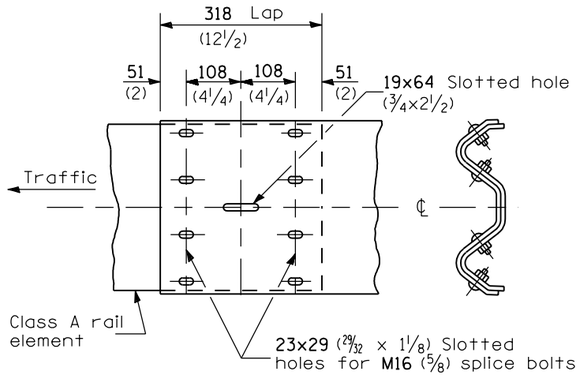
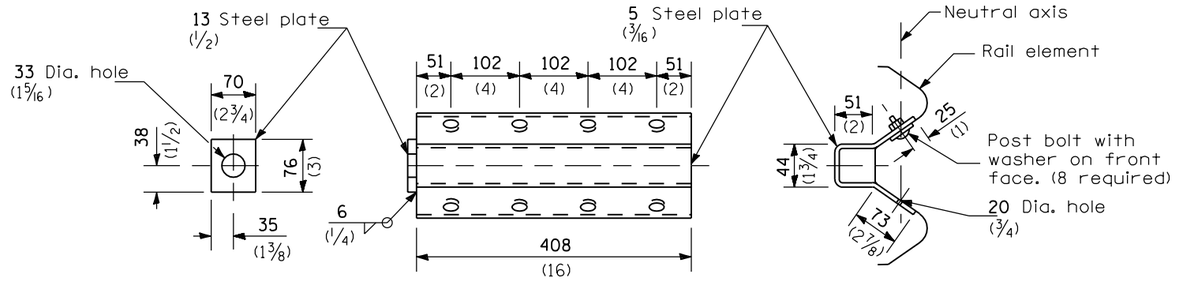
STANDARD 630001-04



SPLICE PLATE



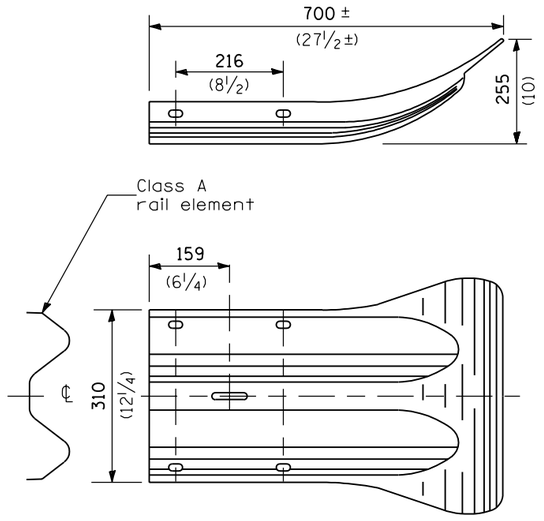
RAIL ELEMENT SPLICE



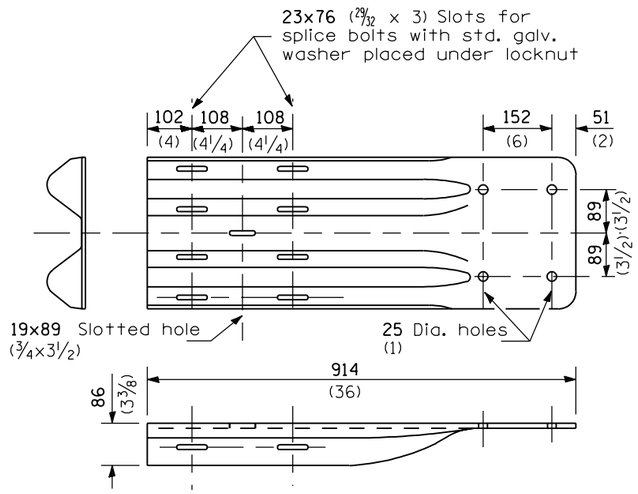
NOTE

Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

ANCHOR PLATE T DETAILS



END SECTION



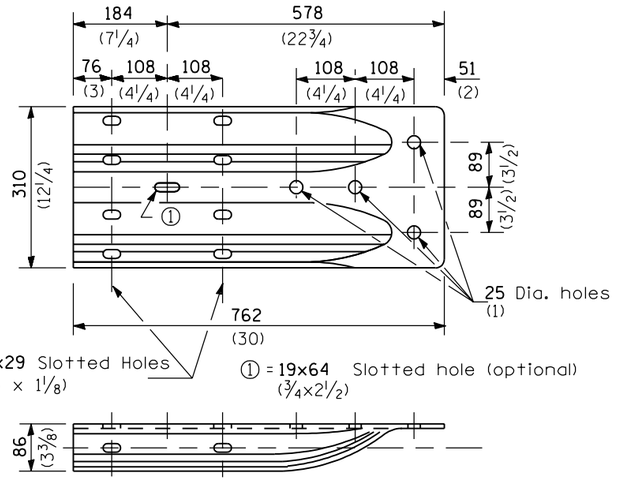
NOTE

When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

Externally threaded studs protruding from the surface of the concrete will not be permitted.

END SHOE



ALTERNATE END SHOE

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STEEL PLATE BEAM GUARDRAIL

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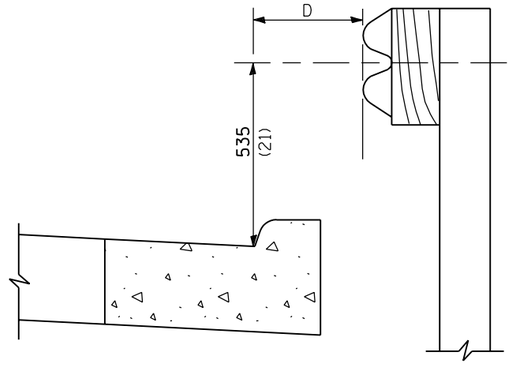
STANDARD 630001-04

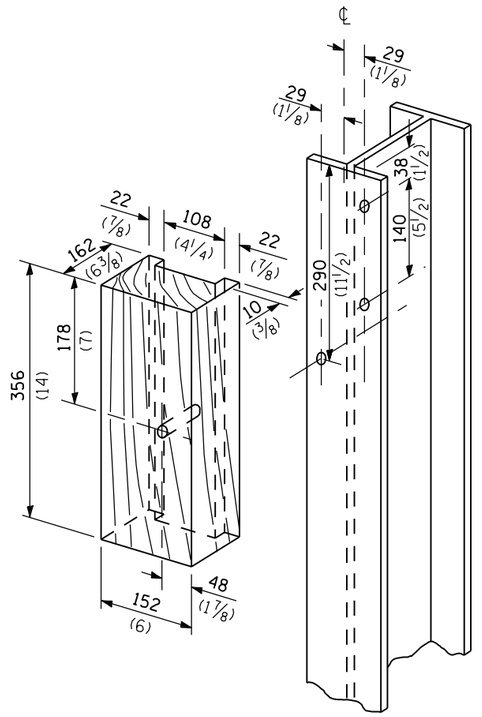


NOTE

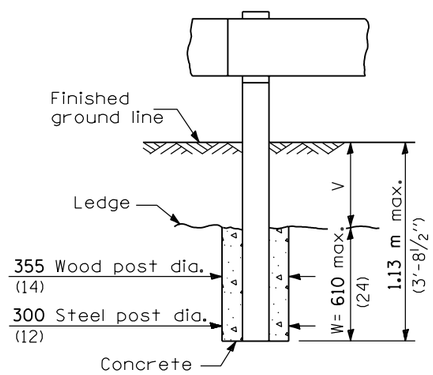
If it is necessary for D to be more than 300 (12) and less than 3.0 m (10'-0") type M-5 (M-2) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

GUARDRAIL PLACED BEHIND CURB

(D = 0 desirable to 300 (12) maximum)



WOOD BLOCK-OUT AND STEEL POST DETAILS

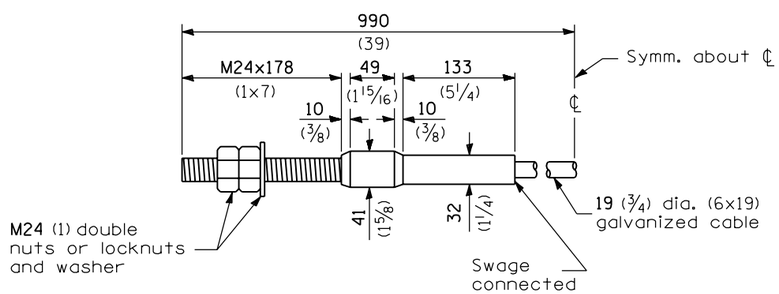


NOTE

When V is 0 to 520 (20 1/2), W= 600 (24). When V is greater than 520 (20 1/2), W= 1.13 m (3'-8 1/2") -V. When V is 150 (6) or less, post hole shall be filled to ground line with concrete.

Ledge line is top of rock ledge or hard slag fill.

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



CABLE ASSEMBLY

(18,100 kg (40,000 lbs.) min. breaking strength)
Tighten to taut tension.

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STEEL PLATE BEAM GUARDRAIL

(Sheet 4 of 4)

STANDARD 630001-04